

REMOVABLE FILTER FOR SLURRY
HYDROCARBON SYNTHESIS PROCESS

(LAW551)

Abstract of the Disclosure

A removable filter for separating and filtering slurry liquid from solid particles includes one or more filter sections connected by a filtrate conduit. Each section comprises a plurality of vertical, hollow, sintered metal filter elements horizontally arranged across a manifold connected to a hollow filtrate conduit. The sections are vertically stacked and connected by the conduit(s) to form the filter which is removably secured in the slurry by means which permit it to be removed vertically up and out of the top of the reactor. This filter has a high surface area to volume ratio and is useful for removing the liquid hydrocarbon products from a slurry hydrocarbon synthesis reactor and can easily be replaced without having to drain out the slurry.